

What is claimed is:

1. A tetracalcium phosphate (TTCP) particle comprising a basic calcium phosphate whiskers or fine crystals on a surface of said TTCP particle; said basic calcium phosphate whiskers or fine crystals having a Ca/P molar ratio greater than 1.33, said whiskers or fine crystals having a length up to about 5000 nm and a width up to about 500 nm.
2. The tetracalcium phosphate as defined in claim 1, wherein said basic calcium phosphate whiskers or fine crystals have a Ca/P molar ratio from about 1.35 to about 4.0.
3. The tetracalcium phosphate as defined in claim 1, wherein basic calcium phosphate whiskers or fine crystals have a length from about 1 nm to about 2000 nm and a width from about 1 nm to about 200 nm.